# THE REPORT ON THE CENSUS OF PRODUCTION FOR 1958 

Part 54<br>SCIENTIFIC, SURGICAL AND PHOTOGRAPHIC INSTRUMENTS, ETC.

Presented by the Board of Trade to Parliament in pursuance of the
Statistics of Trade Act, 1947 ( 10 \& 11 Geo. 6 Ch.39, Sec.7)

LONDON: HER MAJESTY'S STATIONERY OFFICE 1961

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Some changes were introduced in the 1958
census, which affect the comparability between 1954 and 1958 figures. firms employing 25 or more persons, instead of,
as previously, from firms employing 11 or more

persons. | persons. |
| :--- |
| The |

many cases rather wider than for for 1954 . In both
 comprising in most cases the whole of the premi ses
under the same ownership or managenent at a particu-
lar address (e.g. a factory or mine); but of fices, lar address (e.g. a factory or mine); but offices,
lar ehouses, Iaboratories. etc. at addresses separate
wrom the works were treated as ant warehouses, raboratories, etc. at adaresses separate
from the work were treated as part of the establ-
isment. For 1958, but not for 1954 firms
asked to
asked to include al so, in to asked to include also, in a11 sections of their
returns, particulars relating to merchanting or
factoring, canteens operated by them, and other
anciliary activities, suct as bottlinem, pariot anciliary activities, such as bottling, packing, and
the manufacture of containers for packing their own products, whe ther or not these activities were
carried on at the same address as the works, unless

CAPITAL EXPENDITURE
The expendi tu
The expenditure on new building work shown
excludes the cost of 1and and existing buildings purchased; for plant, machine ry and vehicles both
new and second-hand items are included. The value
is that charged to capital account during the year,
 I ishments in Great Britain where production had not started
Table 1.
Characteristic products (See the description of the EMPLOYMENT
(i) Working proprietors

These include all perssons regarded as 'self-
employed' for National Insurance purposes, and
menbers of their families who worked in the business ithout receiving fixed wages or salaries; but ex rons working
excluded
ii)
 Employees are classified under the two main
headings of (a) administrative, tehnical and
clerical employees and (b) operatives. The fi gures clerical employees and (b) operatives. The figures
relate to persons on the pay-roll (i.e. whose
 whether ful1-time or part-time employees. The
figures for 1958 include, but those for 1954 exlude, persons engaged in merchanting or factor-
ing, and canteen workers. ing, and canteen worke
Administrative,
Administrative, technical and clerical em-
ployees include managers, superintendents, and works
foremen; research, experiment foremen; research, experimental, development,
techmical and desi gn employees (other than opera-
tives); draughtsmen and tracers travellers; and technis. drand dsmen employees, traterss traverenan opera-
tivers; and
office (including works office) employees. Operatives include all other classes of em-
ployes, that is, broady speaking, all manual wage earners. They include those employed in and about the factory or works; operatives employed in power
houses, transport work, stores., warehouses and, for
1958, tanteens.
inspectors, viewers. and simi far orkers; maintenance workers; and cleaners. Operatives engaged in outside work of erection,
fitting etc., are also included, but outworkers (i.e.e.
persons employed by the firm who worked on materials
they were conducted by a separate company, or by a building and engineering maintenance departments were treated similaring maintenance departments
selling and transport
departments were treated in this and departments were treated in this way both for 1954
and 1958 . Whi1e the effect of including these
further and 1958 . While the effect of including these
further ancil1ary activities was generant to to
produce higher figures for employment etce., the produce higher figures for employment etc., the
reporting of separate fi gures for merchanted, goods
led to the exclusion of some firms who proved to be reporting of separate ingures for merchanted goods
led to the exclusion of some firms who proved to be
nerchants with only minor productive activities. nerchants with only minor productive activities.
Changes made for 198 in the instructions
governing the making of returns for two or more governing the making of returns for two or more
establis shments operated by the same firm permitted
combined reter combined returns to be made more freely than in
previous censuses. Combined returns were accepted covering establishments in the same census industry,
and situated in the cotland or Wal es ).
The 1954 figures have been re-tabulated to but because of the as possible to those for 1958 , correspondence is not always exact.
census reports
supplied by the firm in their own homes, etc.) are
ucluded.
(iii) Total employment

This is the sum of the average number of em-
ployees and the number of working proprietors;
outworkers are excluded.

## Enterphise

The term enterprise is used in this report to ontrol as defined in the Companies Act, 1948 or enterprise normally consists either of a single ubsidiary companies.
enthies
The number of entries shown in Tables 4, 5 and 7 is the number of returns on which figures against
a particular output or production heading were
ar orresp. The number of entries is less than the that combined returns were made covering more than
one of the estabiu shments concerned. establishment In most cases an establishment comprises the
whole of the premi ses under the same ownership or
managenent at a particular address e. e. a factory managenent at a particular address (e.g. a factory
or mine). Offices, warehouses, 1aboratories and other ancillary places of business at a separate
address from the works were treated as part of the address from
inte rmediate products
For some industries figures are given showing
the total quantities made during the year of importne total quantities made during the year of import-
ant intermediate products, i.e. products which may be further processed in the establi ishments in whay
they are produced, whether or not they are also sometimes sold. They include also goods are also
froduced
from materials supplied by other fims.
uATERIALS AND FUEL
The totals shown include the cost of all purproduction, and of fuel (including oil, gas and electricity) for all purposes including heating, ighting and transport (where carried out by firms
own staff included in the return); all packing
materials, including the fu11 cost of returnable
cases and containers when first purchased; workshop materials; office materials; water charges; materials for repairs to firms' oun buildings, plant
and vehicles when carried out by their own workpeople itceuded in rie return; consumable tools;
and parts for machinery purchased during the year as
replace
 factoring, and canten supplies, are included for
1958 but not for 1954. Materials supplied by customers for processing are excluded for both years
The values shown include any duty paid (less rebate, etc.) but exxlude trade discount paid (1ess
The cost ofed.
The transport was included only if included in the cost of materials as invoiced; amounts, , aid
to transport organisations, including firms own separate transport organis sations, for delivery of
materials and fuel are therefore excluded. Matermaterials and fuel are therefore excluded. Mater-
ials sprchased overseas were entered at their cir ci.f.
cost cost plus any duty if the cost of transport from the
docks was not included in the invoiced price, and at
their full delivered cost if invoiced 'carriage paid home'.
NET OUTPUT
The net output of an industry represents the
value added to materials by the process of proVactee aded and inclutes for 19558 the process of pross margin on
duction
any merchanted or factored goods sold; it conany merchanted or factored goods sold, it con-
stitutes the fund from which wages, salaries, rents,
rates and rates and taxes, advertich wing and others, sentling
expenses, and ali other similar charges have to be expenses, and all other similiar charges have to be
met, as well as depreciation and profits. There is
no apreciable dupprication in net output. Net output was no mally y obtained by taking the
total value of sales and work done (including, for 1958, the value of merchanted goods sold and canteen
takings); adding the value of stocks at the end of the year and deducting their value at the beginning of the year, and deducting also the cost of
materials and fuel purchased (including, for 1958 ,
the value of goods purchased for merchanting and the value of goods purchased for merchanting and
canteen supplies) payments for work given out to
other fi rms, and payments for transport. The net other firms, and payments for transport. The net
amount of duty paid was deducted, and the net amount
of subsidy received added.
Net output per person employed
NET OUTPUT PER PERSON EMPLOYED
The figmares for net output per person employed
are derived by dividing net output by total employment (see above).
PRINCIPAL PRODUCTS (See the description of the
method of classification before List of Tables) sales Sales include goods made by the business workers or by other firms trosemade for it by orterials given out
work
to them (sometimes described as goods made on to them (sometimes described as goods mache on
commis sion), and waste products sold. Any machinery
or other capital it tems produced for wis commission, anitwaste produrts sold for An machinery
or or ther capital items produced for use in the
business covered by the return are also included,
the value being that adoter the value beeng that adopted in the firm's capital
account for income tax purposes. Goods sold without
being subjected to any manu facturing process (merbeing subjected to any manu facturing process (mer-
chanted or factored and anteen takings are in-
cluded for for 1958 but not for 1954 ; where the total sales of merchanted or factored goods were 1ess than
f5, ooo, firms were permit ted to include them wi th
the figures for sales of goods of theit
duction.
SYMBOLS USED
The following symbols are used throughout the
reports:
for not avail able
for not available
for ni1 vor negligible (1ess than half the
final digit shown)
value, defined as the amount charged to customers any trade discounts, agents, commissions, allowances for returnable cases, purchase tax, etc.; the net
amount charged for packing materials is included. Goods charged on a del ivered basis to customers
Overseas, are included at the f.o.b. Value. For
work done on commission or for the trade, the val work done on cormission or for the trade, the value
shown is the net amount charged. Witha fewe except-
ions, receipts for business and other services ions, receipts
not included.
To the extent that the fini shed products of one
establi ishment constitute the materials purchased by establishment constitute the materials purchased by
another, total figures of the value of sales and of
materials and fuel purchased) include an el element of
dut materials and
duplication.
Stocks and work in progress
The values shown are the income tax values of stocks of products on hand form sale, values of
materials and fuel, at the beginning and end of
mhe year and find the year of return. at the beginning and end of 1958 but not for 1954,
they include chay include any stocks of goods held for merprogress at the two dates is also usually shown.
This excludes any progress payments made to sub. contractors, and no deduction is made on account of
progress progress payments recei ved.
thansport payments
credited during the year for both outwards paid or transion
of fied of finished goods sold and inwards transporto to other fi rms purchased. They include payment to other firms, and to any separate transport
organisation of the same firm, not covered by the
return, but exclude the en return, but exclude the value of transport services
provided by the business covered by the return. The provided by the business covered by the return. The
items included are payments for hir ced cartage and
for inwards and outwards carriage by alr forms for inwards and outwards carriage by all forms of
inland transport, that is railways, road haulage,
canals, coast-wise shi canals, coast-wise shipping, ai r, etc. Payments
made for sea freight on goods sold to custoners
overseas and made for sea freight on goods sold to customerss
overseas and on materials and fuel purchased from
overseas suppliers are ald WAGES AND SALARIES
These are the amounts paid during the year to operatives and to administrative, technical and
Clerical employes. Payments to working proprietors, whether. calited salaries ork not, are
excluded. The values shown include all overtime
ex excluded. The values shown include all overtime
payments, bonuses and commissions, whether paid
cegularly or not, and no deduction is made for regularly or not, and no deduction is made for in-
come tax, insurances, contributory pensions, etc.
The value of any payments binkind, travelling axpenses, lodging allowances, etc. is excluded.
Figures are also shown for average salaries etc. Paid per head for the week ended 2 geth october,
1988 . For staff paid month 1 y , the figures are 1958. For staff paid month1y, the figures are
based or payments made in October, 1958 . Where
payments related to periods other than payments related to periods other than a week or
month, an appropriate proportion was returned. month, an appropriate proportion was returned.
only those bonuses and comis ssions actually paid in
the period are included
work given out
The figures shown represent the total amount
paid for work done by other firms on materials
 ments for which separate returns were made. They
do not include payments to indi vidual outworkers or
payments for business and other services.

## Rounding of FIGGRES The fi i qures in

The figures in the tables have, where necessary, therefore, be apparent slight discrepancies between
the sums of the constituent dity

The Report on the Census of Production for 1958

## Part 54. SCIENTIFIC, SURGICAL

 AND PHOTOGRAPHIC INSTRUMENTS, ETC.This report on the Scientific, Surgical and Photographic Instruments, etc. Industry relates to establishments engaged in the manufacture of photographic equipment including cameras, projectors, photographic accessories, photographic films and plates, sensitised paper. etc.; optical
instruments including binoculars. telescopes, microscopes, ophthalmoscopes and the grinding of lenses; spectacles, monocles, goggles, etc. including frames; surgical cutlery, dental instruments, splints, trusses, artificial eyes, artificial teeth and artificial limbs, and other surgical and dental appliances. including electro-medical equipment (other than X-ray apparatus); and all other types of scientific instruments and equipment. excluding electronic instruments and engineers
gauges. The industry corresponds to minimum list heading 351 of the second (1958) edition of the Standard Industrial Classification, which has been used for the first time in the 1958 Census.

This industry corresponds to Industry 5H in the reports on the last detailed Census of
uction, for 1954, but micrometers. formerly included in this industry, now form part of Production. for 1954. but micrometers, formerly included in this industry, now form part of
minimum list heading 333 and are included in the report on Engineers' Small Tools and Gauges (Part 44). Electro-medical equipment and electrical measuring instruments. now included in this industry, were formerly reported on in Industry 4K (Electrical Engineering (General)). X-ra apparatus and electronic instruments form part of minimum list heading 364 and are included in the report on Radio and Other Electronic Apparatus (Part 59).

Fons and most of the tables in this report relate from firms employing twenty-five or more persons and most of the tables in this report relate only to these larger firms. This is an employing eleven or more persons on productive work. Estimates for the industry as a whole are given in Table 1.

Correspondence in for 1954 correspond as closely as possible to those collected for 1958 but information. Some other exact, especially in respect of the small firms who gave only limited information. Some other changes introduced in the 1958 Census also affect the co
between 1954 and 1958 figures; these are explained in the notes prefacing this report.

METHOD OF CLASSIFICATION
This industry is defined in terms of its principal products which are those shown in Table 4. A census return was classified to this industry if the principal products of this industry (including, as well as sales, ophthalmic prescription work and repair work on surgical instruments) accounted for a greater proportion of its output than the principal products of any
other industry. Where, however, the application of this rule would have resulted in a change of classification between 1954 (on the revised basis) and 1958, the return was classified to the same industry as for 1954 unless the output of principal products in the new industry was one third as the result of marginal changes of products and of non-specific items such as waste products and canteen takings were not taken into account in classifying returns.

Sales of data processing and handling equipment. Which are produced by some firms otherwise engaged in this industry and also by firms in the Office Machinery Industry (Part 49) and the
Radio and Other Electronic Apme to which of the three indus triaratus Industry (Part 59) were not taken into account in determining than 85 per cent. of total sales, in which case the return was classified to the Radio and Other Electronic Apparatus Industry.
A procedure similar to that described above for classifying to the industry was followed in
classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being define classifying to the sub-divisions of the industry shown in Table 2, the sub-divisions being defined
in terms of the ir "characteristic products'. The numbers shown in the left hand column of Table 4 identify the sub-division of which the item is a characteristic product. The total value of sales of characteristic products shown in Table 2 includes, besides the products which define the subdivisions, other items of output assumed to be closely related to them, e.g. waste products, but such items
divisions.

Table No.
1.

2
3
4
5

6

## -

## Analysis by sub-divisions of the industry

Analysis by size of enterprise within the industry, 1958 ..... 54/6
Sales of principal products of the industry by larger firms,
including sales by establishments classified to other industries ..... 54/7
Sales of principal products of the industry by establishments
classified to other industries ..... 54/13
Sales of other than principal products by larger firms in the
industry

Total make of intermediate products, 1958

Industry summary: United Kingdom

|  | Unit | 1954 | 1958 |
| :---: | :---: | :---: | :---: |
| Number of enterprises | No. | . | 1.331 |
| Number of establishments | $\cdots$ | .. | 1,531 |
| Sales $\quad$ goods produced and work done | \&. 000 | 127.694 | 162.638 |
| Sales $\quad\left\{\begin{array}{l}\text { merchanted goods and canteen takings }\end{array}\right.$ | " | .. | 11.038 |
| Purchases of materials and fuel (b) | . | 47.838 | 66,527 |
| Products on hand $\quad\left\{\begin{array}{l}\text { change during year }\end{array}\right.$ | . | + 909 | + 1.024 |
| for sale (b) \{at end of year | " | 6,362 | 8.987 |
| Work in progress $\{$ change during year | * | + 398 | + 1.149 |
| Work in progress $\quad\left\{\begin{array}{l}\text { at end of year }\end{array}\right.$ | . | 13.684 | 21.334 |
| Stocks of materials $\quad$ change during year | * | - 318 | - 296 |
| and fuel (b) \{at end of year | . | 14.753 | 18.846 |
| Payments for work done on materials given out | . | 2.515 | 2.690 |
| Payments for transport | . | 715 | 1.076 |
| Net output | . | 77.614 | 105.260 |
| ¢operatives | Th. | 73.1 | 72.6 |
| Average number employed (c) | .. | 24.8 | 31.9 |
| total, including working proprietors | " | 98.2 | 104.8 |
| \{of operatives | \&,000 | 29.898 | 37.263 |
| Wages and salaries Of other employees | . | 14.132 | 22.700 |
| Capital expenditure (d) |  |  |  |
| New building work | . | 1,087 | 3.208 |
| Sacquisitions | " | 2.441 | 4.376 |
| Plant and machinery $\left\{\begin{array}{l}\text { disposals }\end{array}\right.$ | " | 121 | 96 |
| Vehicles $\quad$ acquisitions | . | 486 | 779 |
| Vhthes ${ }^{\text {disposals }}$ | . | 124 | 299 |

(a) For 1958 . estimates in respect of returns from small firms and unsatis factory returns accounted
for about per cent. of the total fifures in which they were incorporated.
detailed sumary of the (b) Goods for merchanting and canteen supliies are included for 1958 but excluded for 1954 .
(c) Persons engaged in merchanting or factoring and canteen workers are included for 1958 but
(d) Including expenditure in Great Britain for establishments not yet in production.

Analysis by sub-divisions

of the industry
persons: United Kingdom (a)

| Sub-divisions of the industry (b) |  |  |  |  |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Opt } \\ \text { instr } \end{gathered}$ |  | Spectacles, etc. <br> 30 |  | Surgical, dental and veterinary instruments and appliances |  | Other scientific instruments and equipment <br> 50 |  |  |  |
| 1954 | 1958 | 1954 | 1958 | 1954 | 1958 | 1954 | 1958 | 1954 | 1958 |
| 21 | 24 | 82 | 78 | 98 | 86 | 169 | 175 | 408 | 384 |
| 30 | 36 | 129 | 117 | 135 | 106 | 237 | 246 | 595 | 552 |
| 7.573 | 6.810 | 9.666 | 11.541 | 11.710 | 12.906 | 56,529 | 78.672 | 116.573 | 148.473 |
|  | 414 |  | 2.185 | .. | 653 | .. | 3.408 | .. | 10,077 |
| 5,920 | 5.664 | 9. 224 | 11.140 | 10.642 | 11.785 | 41.873 | 66.858 |  |  |
| 1.887 | 2.140 | 3.918 | 5.727 | 4.215 | 4.862 | 18.192 | 28.705 | 43.672 | 60.733 |
| + 5 | + 126 | + 53 | + 38 | - 48 | + 51 | + 388 | + 411 | + 830 | + 935 |
| 628 | 721 | 578 | 1.086 | 494 | 557 | 2,893 | 3. 526 | 5.808 | 8, 205 |
| + 264 | + 27 | + 6 | + 6 | + 34 | + 65 | - 199 | ${ }_{+1.138}$ | + 363 | +1.049 |
| 2.263 | 1.467 | 320 | 358 | 888 | 1.117 | 6.821 | 13.871 | 12.492 | 19.476 |
| - 19 | + 30 | + 105 | + 1 | + 22 | + 27 | - 235 | - 40 | - 291 | - 270 |
| 619 | 461 | 1.163 | 1. 251 | 1.511 | 1.513 | 5.859 | 9.014 | 13.468 | 17.205 |
| 87 | 140 | 30 | 37 | 113 | 147 | 1.903 | 1.788 | 2.296 | 2.455 |
| 31 | 37 | 27 | 59 | 84 | 145 | 351 | 533 | 653 | 982 |
| 5.818 | 5.090 | 5.856 | 7.948 | 7.306 | 8,549 | 36,036 | 52,563 | 70.854 | 96,092 |
| 6.256 | 4.053 | 8.477 | 8,144 | 8.896 | 8.119 | 33.802 | 36.030 | 66,932 | 66.434 |
| 1,896 | 1,521 | 1.427 | 1.508 | 2.170 | 2.248 | 12.413 | 18.293 | 22,695 | 29.200 |
| 8,152 | 5.574 | 9.911 | 9.657 | 11.071 | 10.368 | 46.221 | 54,330 | 89,645 | 95,647 |
| 714 | 913 | 591 | 823 | 660 | 825 | 780 | 967 | 790 | 1.005 |
| 2.613 | 2.008 | 2,986 | 3.532 | 3.409 | 3.845 | 14.132 | 18.785 | 27.365 | 34,106 |
| 1.038 | 1.230 | 829 | 1.167 | 1.240 | 1.543 | 7.044 | 12,577 | 12.935 | 20.777 |
| 418 | 495 | 352 | 434 | 383 | 474 | 418 | 521 | 409 | 513 |
| 548 | 809 | 581 | 774 | 572 | 686 | 567 | 688 | 570 | 712 |
| 56 | 41 | 22 | 12 | 20 | 222 | 405 | 1.166 | 948 | 2,869 |
| 162 | 123 | 120 | 132 | 157 | 228 | 1.010 | 1,513 | 2.229 | 3.991 |
| 10 | 7 | 17 | 7 | 13 | 9 | 49 | 52 | 110 | 87 |
| 12 | 17 | 48 | 76 | 47 | 74 | 252 | 403 | 444 | 711 |
| 2 | 6 | 19 | 37 | 12 | 38 | ${ }^{6} 4$ | 147 | 114 | 273 |

For footnotes to the table, see next page

SCIENTIFIC, SURGICAL AND PHOTOGRAPHIC INSTRUMENTS, ETC.
Sales of principal products of the industry by larger firms, including sales by establishments classified to other industries
table 4
TABLE 4 Firms employing 25 or more persons: United Kingdom

| 1954 |  | 1958 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Quantity | Value | Quantity | Value | $\underset{\substack{\text { Entor- } \\ \text { prises }}}{\text { ces }}$ | Entries |
| Th. doz. | \&.000 | Th. doz. | ¢ 000 | Number | Number |
| 186 | 1.747 \{ | 55.3 | ${ }_{111}^{526}$ | $\} 23$ | 25 |
| .. | (b) $\{$ | ${ }^{175}$ | ${ }_{126}^{173}$ | \} 15 | 15 |
| 185 | $1.026\{$ | 60.6 | ${ }_{221}^{366}$ | \} 14 | 15 |
| 305 | 1.273 | 315 | 1.515 | 44 | 52 |
| 3.4 .. | ${ }_{9}^{32}$ | 5.9 | 57 117 | \} 9 | 9 |
| Thousands |  | Thousamds |  |  |  |
| 19.086 | 1.800 | 28,415 | 3.053 | ${ }^{23}$ | ${ }^{1}$ |
| .. | 928 | .. | 702 | 18 | 21 |
| .. | 590 | .. | 356 | 12 | 12 |
| .. | 7.405 | .. | 7.323 | .. | .. |
| .. | 1.169 | .. | 1.136 | 19 | 21 |
| .. | 312 | .. | 392 | 18 | 19 |
| ${ }^{11.6}$ | ${ }_{206}^{296}$ | 15.3 | ${ }_{233}^{163}$ | $\}^{10}$ | 11 |
| .. | 143 | .. | 178 | 14 | 15 |
| .. | 714 | .. | 728 | 5 | 5 |
| .. | 873 | .. | 1.322 | 14 | 14 |
| .. | (b) | .. | 348 | 9 | 9 |
|  | 367 | .. | 474 | 12 | 12 |






|  |  | 1954 |  | 1958 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Quantity | value | Quantity | Value | $\underset{\substack{\text { Enter- } \\ \text { prises }}}{ }$ | Entries |
| $\begin{aligned} & 30 \\ & 40 \end{aligned}$ | Work done <br> Research and development work done for customers including Government Departments |  | \&.000 |  | ع ${ }^{\circ} 000$ | Number | Number |
|  |  |  | 141 (c) |  | 4.225 | 53 | 58 |
|  | Oph thalmic prescription and repair work |  | 1.964 |  | 4,124 | 59 | 69 |
|  | Repair work on surgical instruments |  | 145 |  | 102 | 19 | 20 |
|  | Other repair work for customers Other work done on commission, sub-contract work, etc. |  | 2.704 |  | 4,562 | 125 | 142 |
|  |  |  | 2,006 |  | 2.698 | 49 | 52 |
|  | Total |  | 120,019 |  | 154,750 | .. | .. |
|  | Sales in other industries (see Table 5) |  | 14,227 |  | 14,940 | .. | .. |
|  | Principal products of this industry sold.by establishments in the industry |  | 105,792 |  | 139.809 | 384 | 438 (d) |



(b) Not separately racorded.
 covering more than one es tabli shment.

|  | 1954 |  | 1958 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value | Entries | Principal ndustries in which produced (a) |
| Oph thalmic instruments and <br> appliances and parts thereof <br> Engineers gauges and measuring instruments. optical <br> Other optical instruments and appliances (excluding photographic and cinematographic instruments) and parts thereof | .. | $\begin{array}{r} \hline \text { ع. } 000 \\ 154 \end{array}$ | $\cdots$ | ¢.000 | Number |  |
|  |  |  |  | 250 | .. | 53, 124, 126, 127 |
|  |  |  |  | 47 | .. | (b) |
|  |  | 440 | .. | 493 | .. | 53. 56, 59, 106 |
| Dental instruments, appliances and equipment | - | 15 | .. | ${ }^{31}$ | .. | 53. 108 |
| Medical, surgical, veterinary and dissecting instruments. appliances and equipient (other optical. electronic, and dressings) |  |  |  |  |  |  |
| Surgeons' suture needles | .. | 28 |  |  |  |  |
| Hypodermic needles, surgical and veterinary cutlery and other medical. surgical and veterinary instruments | .. | 47 | \% .. | 134 | 7 | 28, 70, 75 |
| Aseptic hospital furniture | .. | 612 | .. | 439 | 20 | 75. 113 |
| Surgical hosiery, artificial limbs and other appliances, including trusses, surgical boots and artificial eyes | .. | 324 | .. | 520 | 10 | 82, 85, 101, 111 |
| Sterilising equipment including autoclaves | .. | 248 |  | 425 | 16 | 50, 53, 60, 75 |
| Anaesthetic and resuscitation apparatus |  |  |  |  |  |  |
| Other equipment |  |  | - | - | - |  |
| Hearing aids with valve or transistor amplification |  |  | 22.2 | 108 | 6 | 59 |
| Electro-medical, including <br> electronic medical and surgical measuring and testing instruments (excluding X -ray apparatus) |  | 190 |  | 745 | 15 | 56, 59, 60 |
| Photographic and cinematographic apparatus and appliances |  |  |  |  |  |  |
| Cameras and projectors, complete | .. | 74 |  |  |  |  |
| Cinematographic apparatus and acessories (including cinefilm or stock) |  |  | . | 165 | .. | 53. 59. 61 |
| Sensitised photographic plates and films and photographic paper and cloth (other than paper sensitised with silver salts) |  |  | - |  | - |  |
| Other photographic apparatus and accessories, other than cinematographic |  | 261 |  | 660 | $\begin{array}{\|c} 136 \\ \text { Continu } \end{array}$ | $59,60,61,126$ |



Sales of other than principal products by larger firms in the industry
TABLE 6
Firms enploying 25 or more persons: United Kingdom

|  | 1954 |  | 1958 |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Quantity | Value | Quantity | Value |
|  |  | \&. 000 |  | \&. 000 |
| Miscellaneous chemical products | .. | 365 | .. | 535 |
| Castings of brass and other copper alloys, and other metal manu factures | .. | 50 | .. | 164 |
| Engineers' small tools and gauges | .. | 1.402 |  | 646 |
| Pressure gauges |  | ${ }_{70}$ | \{ 24 | 208 |
| Vacuum gauges | - | - |  |  |
| Metal working machine tools, mechanical handling equipment and office and other non-electrical machinery. complete and parts | .. | 607 | .. | 556 |
| Industrial plant and steel work, ordnance and small armis and other mechanical engineering | .. | 381 | .. | 624 |
| Electrial machinery | .. | 657 | . | 519 |
| Nucleonic instruments | - | - | .. | 334 |
| Insulated wire and cables and telegraph, telephone, radio and other electronic apparatus | .. | 2.938 | .. | 3.992 |
| Domestic electric appliances and other electrical goods | .. | 1.435 | .. | 389 |
| Motor vehicle and aircraft parts and accessories and marine engineering | .. | 1.199 | . | . |
| Metal furniture and other miscellaneous metal goods | .. | 434 | .. | 82 |
| Gloves, footwear, and weatherproof outerwear | .. | 68 | - | - |
| Timber buildings, furniture and other wood manufactures | .. | 279 | - | - |
| Plastic goods | .. | 91 | .. | 205 |
| Scientific glassmare |  | 297 | .. | 197 |
| Other products |  |  | .. | 121 |
| Work done | .. | 353 | .. | 68 |
| Total value of goods sold without being subjected to any manufacturing process (merchanted or factored) | .. | .. | .. | 9.487 |
| Canteen takings |  | .. |  | 590 |
| $\mathrm{Total}^{\text {a }}$ |  | .. |  | 18.741 |

Total make of intermediate products, 1958

| TABLE 7 |
| :--- | :--- |

Employment and salaries, etc. for the week ended October 25, 1958

|  | Males | Females | Total |
| :---: | :---: | :---: | :---: |
|  | Number | Number | Number |
| Working proprietors | 11 | 2 | 13. |
| Operatives | 44.587 | 21.245 | 65.832 |
| Administrative. technical and clerical omployeos | 18.619 | 10.497 | 29.116 |
| Total employeos | 63.206 | 31.742 | 94,948 |
| Average salaries. etc. paid per head for the woek to adminis trativo. technical and clerical olployoes | ${ }_{17.6}^{\text {¢ }}$ | ${ }_{7.3}^{8}$ | ${ }_{13}{ }_{13}$ |



Part
70 Cutlery
71 Bolts.
72 Wire . nd
72 Wirs, Nuts. Screws. Rive ts. etc.
73 Cans and Me Manu factures
7 Cans and Metal Boxes
75 Miscall lineous Metal Manu factures
76 Production of Man-made Fibres
76 Praduction of Man-made Fibres
77 Spinning and Doubling of Coton. Flax and
Man-made Fibres 78 Man-made of Cotos. Ling and Man-made Fibres 79 Woorving of Cotton,
80 Jute
81 hope.
82 Hosie
83
83 Lace
84 Cape
85 Narro
84 Carpets
85 Narrow Fabrics
86
Household Text

88 Texvas Goods ond Sa
${ }^{9} 9$ Textile Finishing
Asbest
89 Asbestos
90 Miscollons Textile Industries
91
Textile Converting
91 Textile Converting
92 Leather Tranning and Dressing) and
Fellmongery
${ }^{93}$ Fell limonge
94 Fur
95 fear ther proof Outerwear
96 Men


98 Overals, and Men's. Sirts, Underwear, etc.
99 Dresses. Lingerie. In fants' Wear, etc.

102 Gorse
103 Footwear
102



110 Timber
111 Furniture and Upholstery
112 Fedding etc.
12 Bedding. etc.
14 Shoden Containee Fitting and Baske

116 Paper and Board
117 Carabourd Boxes. Cartons and Fibre-board
Packing Cases

$120 \begin{gathered}\text { Periodicalis } \\ \text { Genal } \\ \text { Engravining, etc. }\end{gathered}$
121 Rughav
122 Linoleum
${ }_{123}^{122}$ Linoleum, Leathercloth, etc.
123 Brushes and Brooms
125 Tys. Games and Sports Equipment
125 Miscellaneous Stationers. Goods
125 Miscellaneous Stationers ${ }^{126}$ Plas ${ }^{\text {Gods }}$
126 Plastics Moulding and Fabricating
${ }_{129}^{128}$ Cas
130 Electricity
131 Water Supply
132
131 Water Supply
132 Index of Products
133
133 Sumary Volume
134 Summary Volume
135 Summery Vol

The census reports for earlier years include some items which are not included in the Report on The Census of Production for 1958. The most recent reports are listed below, with an indication of any important items they contain which do not appear in the 1958 Reports. The data in all these
earlier reports is analysed in accordance with the original (1948) edition of the Standard Industrial earlier reports
Classification.

Census of Production for 1951: Summary Tables Part I (H.M.S.S.O., 1956. Price Ss. net). 1958 Repoits.

Census of Production for 1951: Surmary Tables art II (H.M.S.O., 1956. Price 6s. net) Chamnels of sales, 1948
Payments for servi
Payments for services, 1948
Shift working
Power equipment. 1951
Analysis of periods covered by census returns Analysis of peri
1948 and 1951 .

The Report on the Censuses of Production for 1952 and 1953. Introductory Notes and
print.) ( are now out of
1958 Reports.
The Report on the Census of Production for 1954
Introductory Notes, Index of Products, and 154 booklets relating to individual industries (H.M. S.O., 1956-59. Prices vary, usually from 1s. 6d. to 2s. net for each booklet). purchased.

Census of Production for 1954: Surmary Tables Fues purchased

Electricity generatain industries
Electricity generated, purchased and sold
Materials purchased: iron and steel: non-
ferrous metals; paint; plastics materials; cotton and rayon, nylon, etc. textiles: timb
packing materials: replacement parts for plat etc. (In formation about purchases of other aterials is given in The Report on the Censu of Production for 1954.)

Census of Production for 1954: Summary Tables, (h.M. S.O., 1959. Price 7s. net). Regional analyses of

Census of Production for 1954: Surmary Tables art III (H.M.S.O., 1959. Price 8s. net).
Sales of particular products by certgin industries in Scotlund and Wales.

The Report on the Censuses of Production for 1955, 1956 and 1957. Int roductory Notes and
5 volumes (H.M.S.O., 1959. Prices 1s. 6d. to 3 s . 6 d . net according to size of volume). to No important items which do not appear in the
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